IDENTIFICATION OF COMPOUND FOR SUPPRESSING ULCERATIVE LESION

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Abstract of **JP11094823**

PROBLEM TO BE SOLVED: To evaluate the latent capacity of the treatment of oncosis in vitro by measuring the cyclooxigenase (COX) inhibition activity, phosphodiesterase type 5 isoenzyme (PDE 5) inhibition activity, ulcer cell growth suppressing action and apotosis inducing action of an examined compd. SOLUTION: The screening of a compd. with respect to the capacity safely treating and preventing oncosis like a precancerous lesion is performed by measuring COX inhibition activity obtained by measuring the secretion of prostaglandin E2 from a predetermined cell, PDE 5 inhibition activity measured by a method using 3H labelled c-GMP as an enzyme substrate, tumor cell growth suppressing action measured by cell inhibition data to an established cell line of a predetermined tumor and apotosis inducing action measured by treating cultured matter of predetermined tumor cells to label the same with a dye to observe the labelled culture matter by a fluorescence microscope. A compd. exhibiting PDE 5 inhibition activity, tumor cell growth suppression and apotosis induction and having no COX inhibition activity is selected.